

Optical Tunable Filter Array

Features / Benefits

- 100GHz or 50GHz channel spacing
- Flat-top filtering
- 8 channel array
- 40nm Broadband wavelength tuning range
- Wavelength ranges: C-, L- or S- band
- Continuously tunable
- Low insertion loss
- Low PDL
- Affordable low price

Applications

- Tunable Add/Drop module in ROADM
- Tuning components for tunable laser and white light source
- Optical testing
- Sensing source
- Channel selection in DWDM network



The Lightwaves2020 Broadband tunable filter array is an 8-channel micro-motor-driven optical tunable filter, in which the tuning is achieved by rotating a TFF filter. A wide variety of wavelength tuning ranges and profiles can be achieved by selecting the right thin film filter. There are options for the tunable filters of 100GHz or 50GHz channel spacing.

The tunable filter array is designed to have maximum tunable wavelength range, minimum insertion loss and minimum polarization dependent. It offers cost-effective and compact solutions for various applications, especially in ROADM as tunable devices.



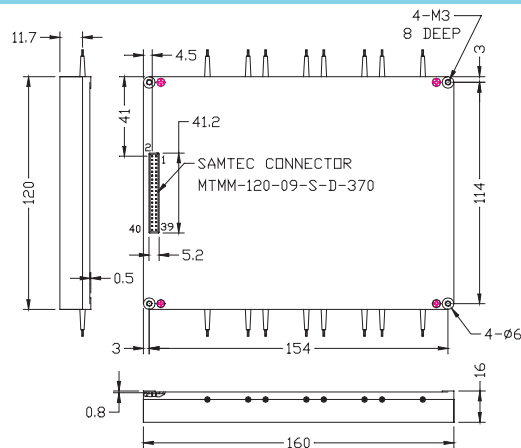
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Specifications

Parameters	Unit	C-band	L-band	S-band
Nominal Wavelength	nm	1520 -1565	1570 -1610	1485 -1520
Channel Space	GHz	100 or 50		
Maximum Insertion Loss	dB ²	< 1.5		
PDL	dB ²	< 0.05		
Maximum Back-reflection	dB	< -50		
Maximum Chromatic Dispersion	ps/nm	± 15		
Temperature Stability	pm/°C	< 1.0		
Bandwidth (for 100GHz)	-	<0.4nm @ 0.5dB down, <1.2nm @ 25dB down ²		
Tuning Accuracy	-	Continuously tunable		
Maximum channel number	-	8		

Note: 1. All specification referred without connectors
 2. Measured at central wavelength 1550nm

Dimensions



Unit: mm

Tuning Spectral For C-Band Filter

